

ABSTRACT

A wireless system and method for locating the position of a movable signal emitter located inside or adjacent to a structure includes establishing at least three base station sites at known locations around the structure. The
5 signal emitter then transmits an omni-directional, low frequency, RF signal that is received at the base station sites. Phase information is measured at each base station site and communicated to a central processing site. At the central processing site, relative phase delays are used to geometrically calculate the position of the signal emitter.

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